

TAJIMA USB LINKER User's Guide

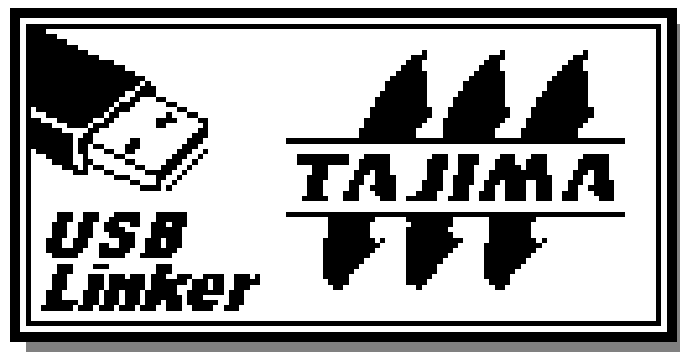


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1. Features

TAJIMA USB Linker is able to transfer the design data stored in a USB Stick to a Tajima Automatic Embroidery Machine. Moreover, reliability and transmission speed are improved in comparison with the similar solutions using FDD.

- TAJIMA USB Linker is available to refer to “directory” in USB Stick and users are enabled to manage the designs easily.

1-1. Supported Models

TMEF, TMEG, TMFD, TMFX, TMEX-C, TMCE, TMLH, TLF, D,
TEHX-C/TFHX (SOP/LCD by Windows CE),
TFKN (SOP), TFGN (LCD by Windows CE), TEJT-C
or Models equipped with Parallel/Serial Port.

1-2. Supported file types : *.DST (TAJIMA)

1-3. USB Stick to use

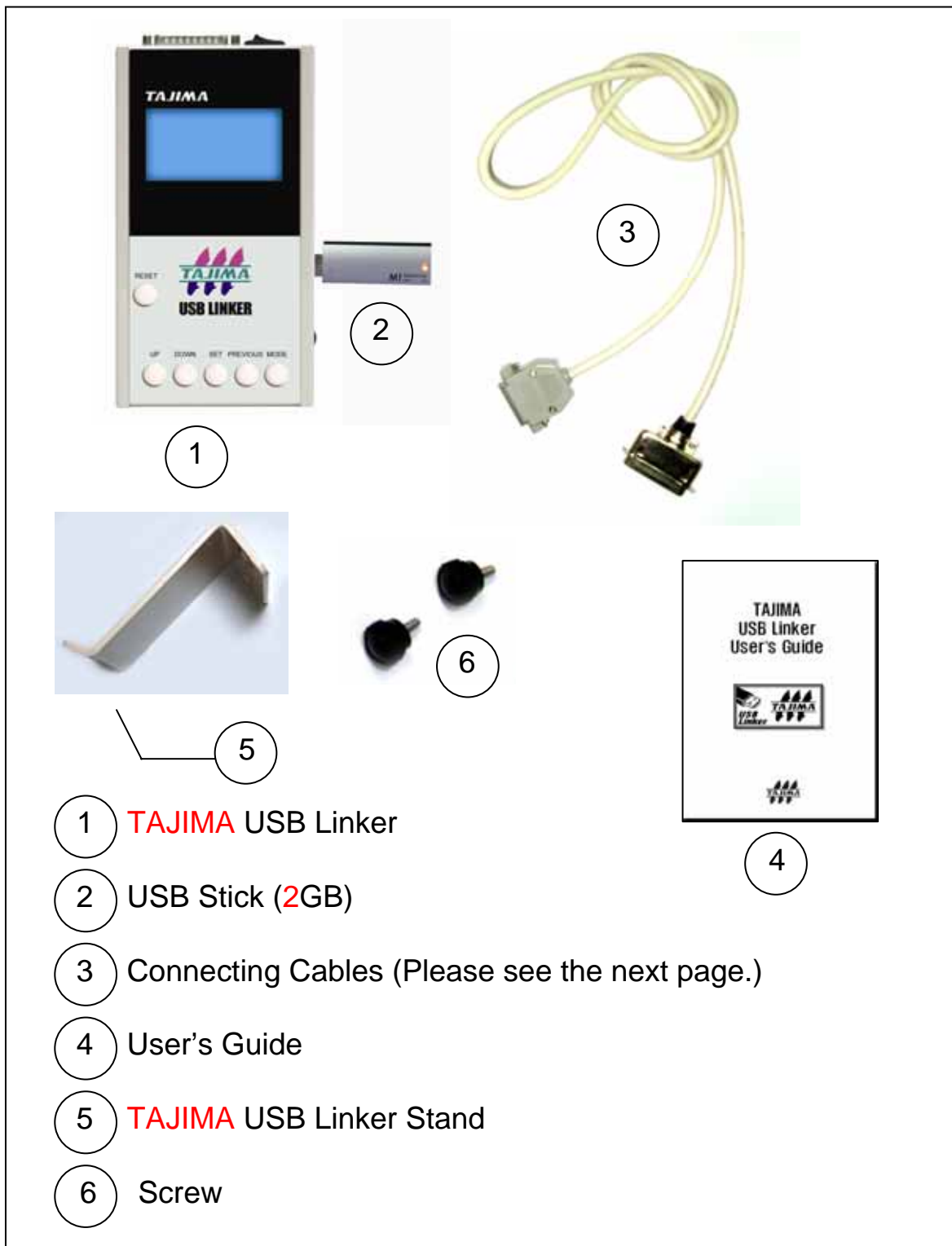
Any type of USB Flash Memories, commercially available in the market.
USB Stick should be formatted in FAT32 or FAT16 before using.

<Note: Storing Capacity>

256MB : 85,000,000 stitches
512MB : 170,000,000 stitches
1GB : 340,000,000 stitches
2GB : 680,000,000 stitches



2. Product



2. Product

CABLE	
PARALLEL	SERIAL
	<div style="text-align: center;">  </div> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;">  <p>25 9 Pin Converter</p> </div> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;">  <p>Power Adapter</p> </div>
<p>Remarks :</p> <p>TAJIMA Machines do not need Extra Power cables.</p>	<p>Remarks :</p> <p>Plug type of Power Adaptor for Serial Cable is Category E. Please arrange necessary Plug Adaptor.</p>

2. Product



3. Cautions

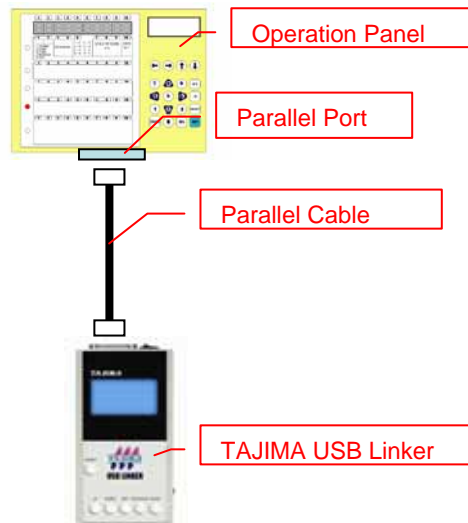
* General Cautions

- Please do not connect the TAJIMA USB Linker to an embroidery machine when the power is turned on to the machine.
- Please do not take out USB Stick while it is operating.
- External Memory Card Readers (connected to USB port of the TAJIMA USB Linker) are not supported.
- The memory area of TAJIMA USB Linker is limited to 2GB although the volume of USB Stick is not limited.

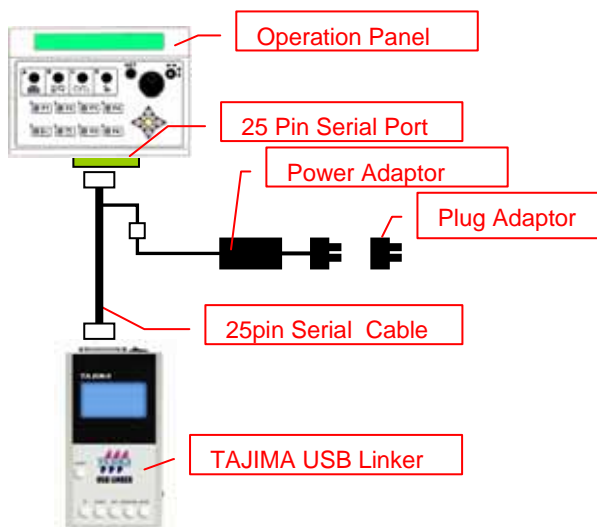
4. Using the TAJIMA USB Linker

4-1. Connecting to a Tajima Automatic Embroidery Machine

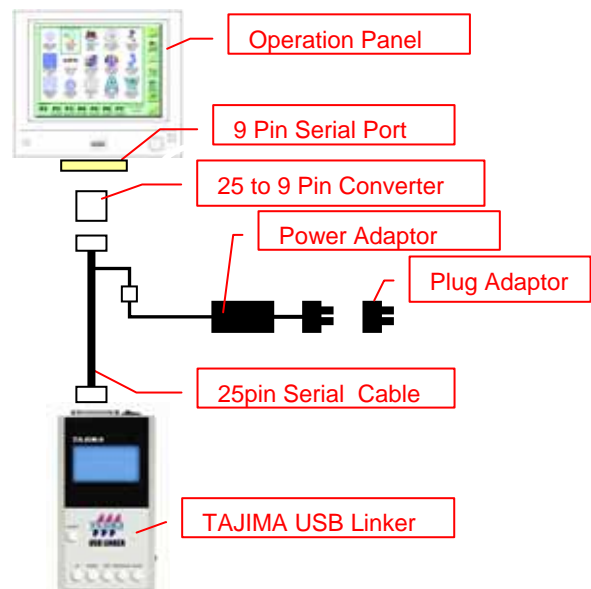
* Basic Connection to Machine with Parallel port



* Basic Connection to Machine with 25pin Serial port



* Basic Connection to Machine with 9pin Serial port



Remarks :

- 1.The package of TAJIMA USB Linker does not include Plug Adaptor and please prepare at the customer side.
- 2.The location of Parallel/Serial port on Operation Panel is different, depending on the models.

4. Using the TAJIMA USB Linker

* Exceptional Connection to TMFD new type by Parallel Cable



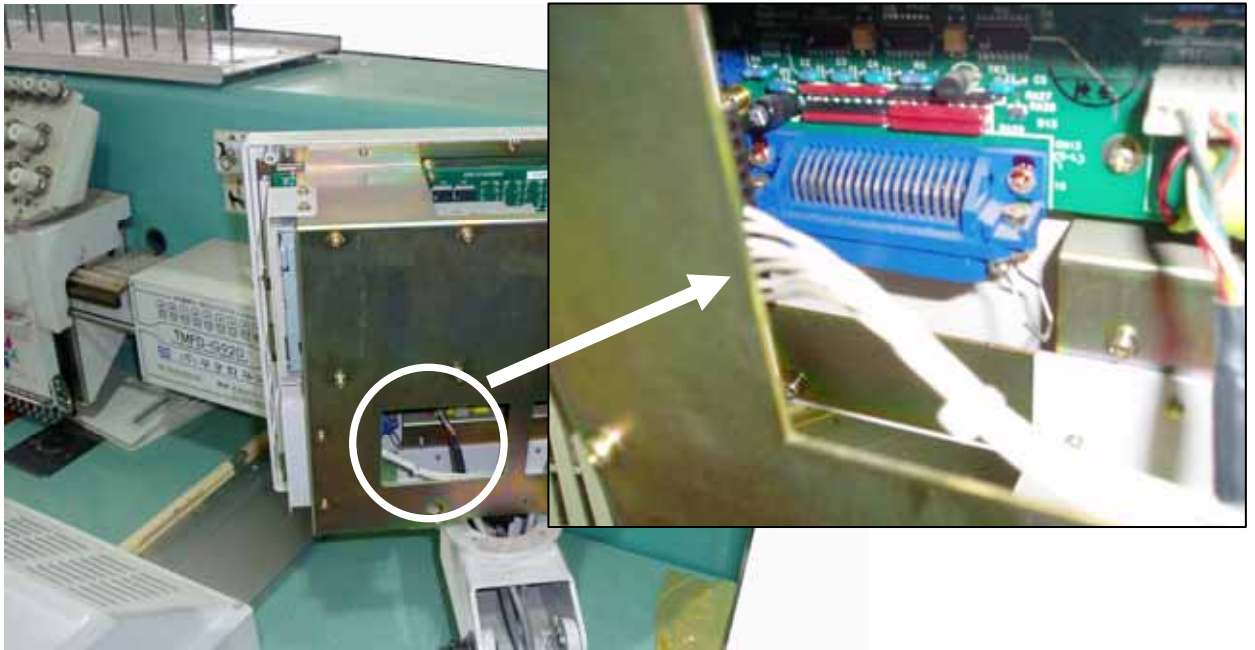
The Operation Panel of TMFD new type is assembled in a plastic case.



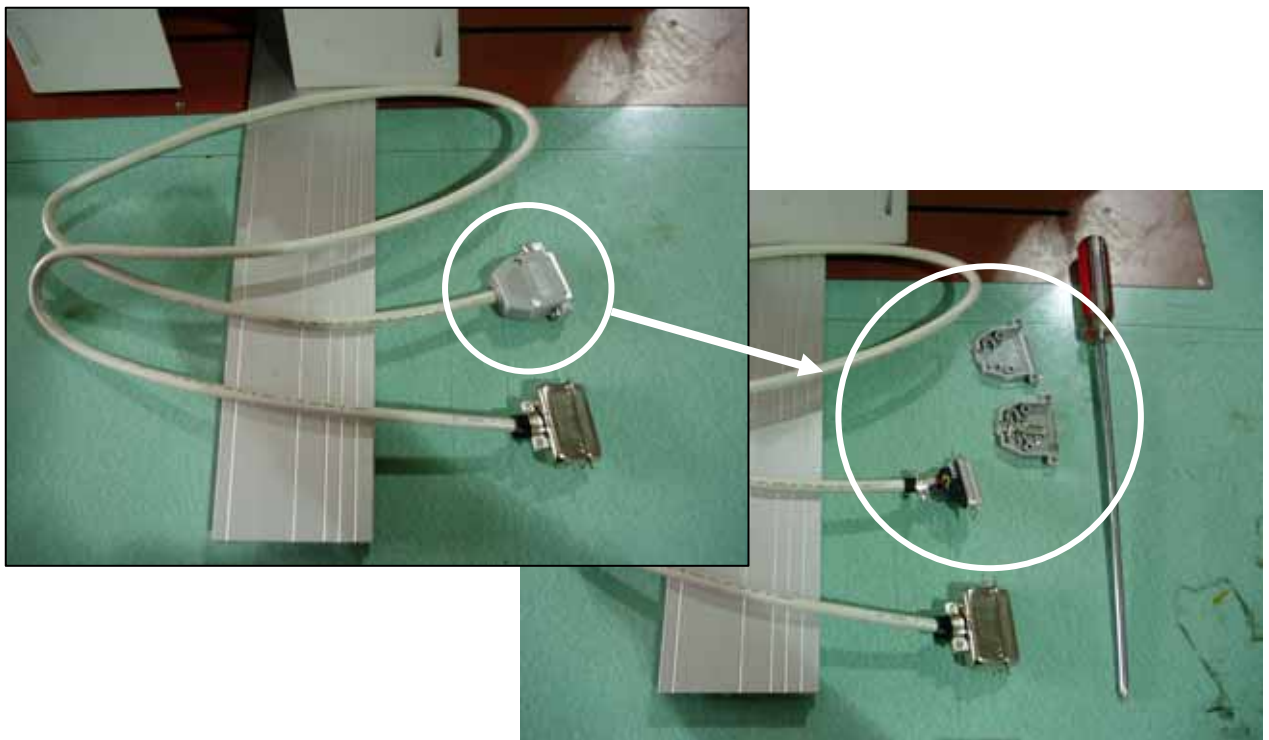
Loose the locking screws of the Operation Panel and turn the Operation Panel as shown in the above picture.

Remove the four screws with a cross screwdriver and open the Operation Panel. 8

4. Using the TAJIMA USB Linker



Find the blue connector in the lower left part of the Operation Panel.



Remove the housing of the Connecting Cable with a cross screwdriver.

4. Using the TAJIMA USB Linker

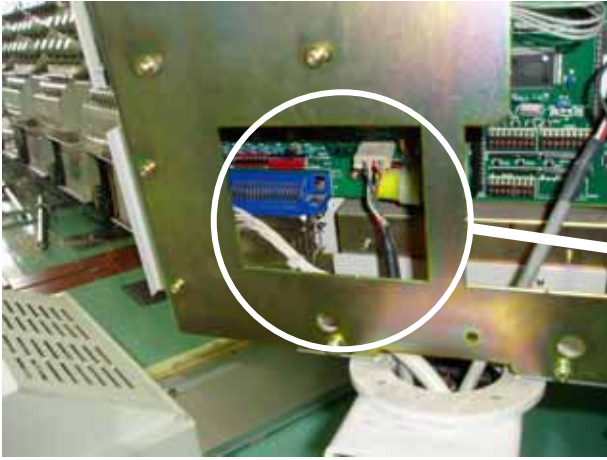


Insert the connector to the hole below the fixing bracket of the Operation Panel.



Pull up the cable like the above picture.

4. Using the TAJIMA USB Linker



Connect the opposite end of the cable to the blue connector in the Operation **Panel**.



Cover the Operation **Panel** and screw the cover.

4. Using the TAJIMA USB Linker



Cover the **Connecting Cable** with the housing.

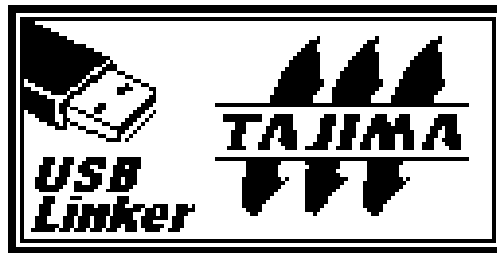


Connect the Cable to the TAJIMA USB Linker.
Left picture shows that the setting has finished.

4. Using the TAJIMA USB Linker

4-2. Layout of the display

- 1) The following logo screen appears in a few seconds when you turn on the TAJIMA USB Linker.



→ Please see page 20 when the machine type does not match.

- 2) A screen to select a design

[T] TIGER	11868
[T] G001	5679
[T] PEACOCK	5329
[T] LION	15220
[T] BEAR	7198
[T] CIRCLE	71430
[T] G002	81782
[T] Invalid name	12738

Stitch count

Showing the file name.
[T] : DST FILE
: directory

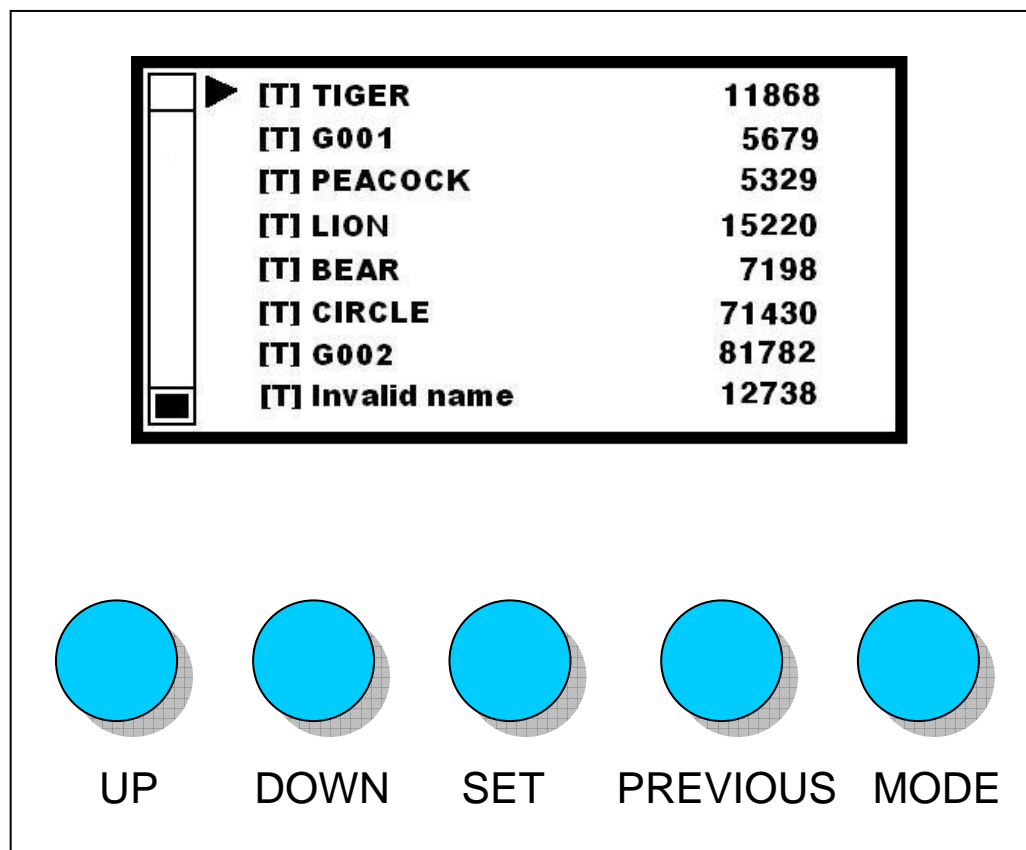
File selecting cursor.

Cursor: indicating the possibility of page up or page down
 : Disable, : Enable



4. Using the TAJIMA USB Linker

4-3. Control Keys



UP, DOWN keys: **M**oving the cursor on the screen.

SET key: **S**electing the menu item where the cursor is located on

PREVIOUS key: Going back to the previous menu after selecting

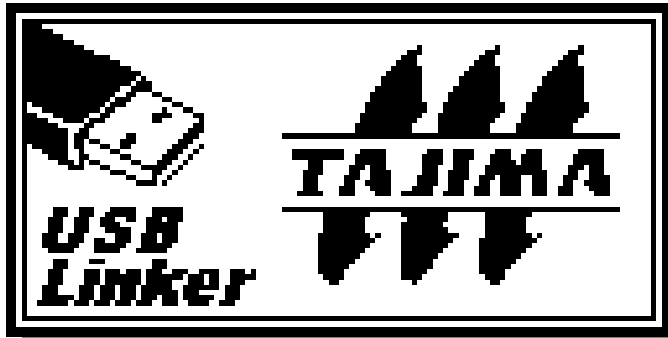
a design. If you **use** this key and **UP/DOWN** key.

simultaneously, you can scroll the page up/down.

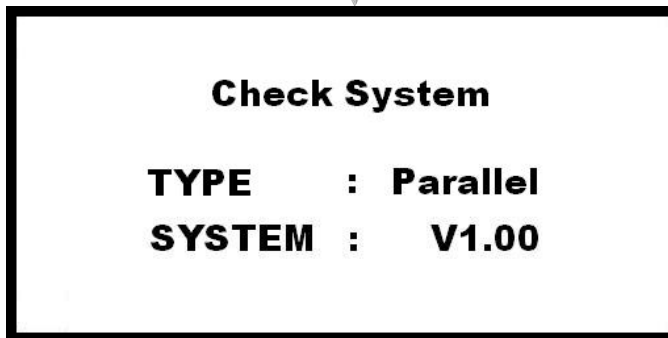
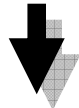
MODE key: **S**howing the directory list when changing a directory.

4. Using the TAJIMA USB Linker

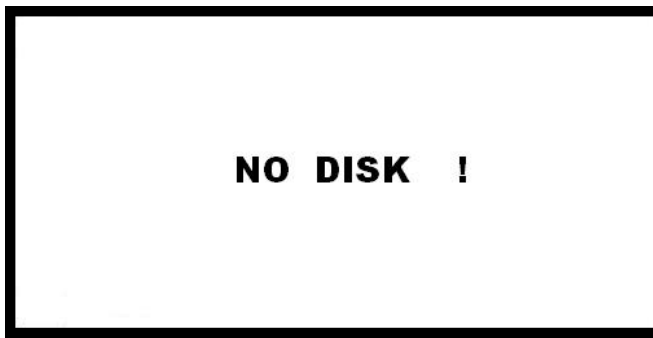
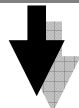
4-4. Using the TAJIMA USB Linker



Logo screen, displayed while the power is on



Displaying the software version



A screen when the USB Stick is not inserted

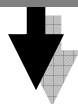
4. Using the TAJIMA USB Linker



A screen when USB Stick is inserted



Displaying the information read from the USB Stick



Showing the designs existing in the current directory

4. Using the TAJIMA USB Linker

<Example>

Selecting a PEACOCK design and transferring the data to the machine



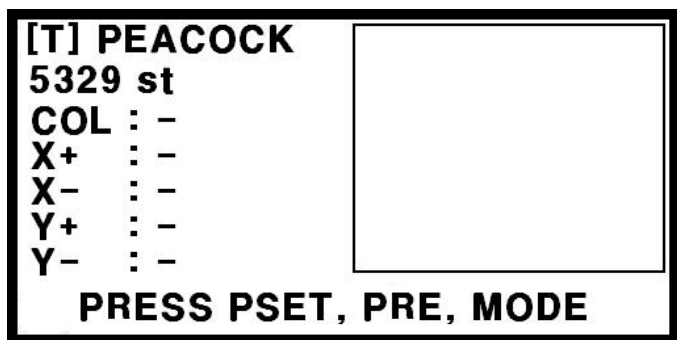
[T] TIGER	11868
[T] G001	5679
[T] PEACOCK	5329
[T] LION	15220
[T] BEAR	7198
[T] CIRCLE	71430
[T] G002	81782
[T] Invalid name	12738

Press the DOWN key two times.



[T] TIGER	11868
[T] G001	5679
[T] PEACOCK	5329
[T] LION	15220
[T] BEAR	7198
[T] CIRCLE	71430
[T] G002	81782
[T] Invalid name	12738

Press the SET key.

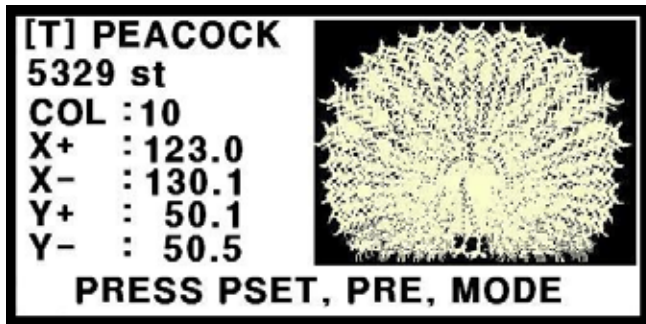


[T] PEACOCK	
5329 st	
COL : -	
X+ : -	
X- : -	
Y+ : -	
Y- : -	
PRESS PSET, PRE, MODE	

In case of the left picture, confirm the design.

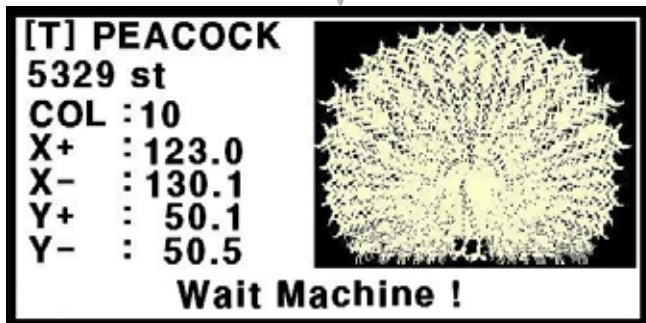
If the design is correct, press the SET key. **Otherwise** press the PRE key.

4. Using the TAJIMA USB Linker



Press MODE key.

Then design information and a thumbnail picture will be displayed.



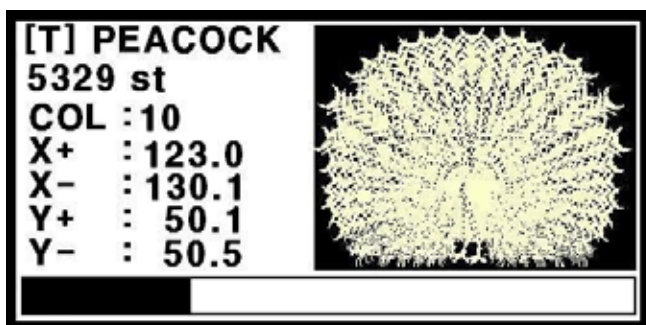
Press SET key to send the design.

TAJIMA USB Linker is ready to send the design.

Now, the design is being called at the Automatic Embroidery Machine.

This procedure may vary, depending on the machine type.

Please see section 5. "Calling the design at the machine".



The design is being transferred.

4. Using the TAJIMA USB Linker

How to switch the directory

<Example> To select the "DOG" design in "SAMPLE" directory and transfer the data to the embroidery machine.



[T] TIGER	11868
[T] G001	5679
[T] PEACOCK	5329
[T] LION	15220
[T] BEAR	7198
[T] CIRCLE	71430
[T] G002	81782
[T] Invalid name	12738

Press the DIR/FILE key.



DESIGN
SAMPLE
TEST
CHENILLE
DOC

Press the DOWN key.



DESIGN
SAMPLE
TEST
CHENILLE
DOC

Select "SAMPLE" directory.

Press the SET key.

4. Using the TAJIMA USB Linker



Displaying the information read from the USB Stick



Showing the designs existing in the current directory

Move the cursor to “DOG” and **transfer the data, following** the instruction in pages **17 to 18**.

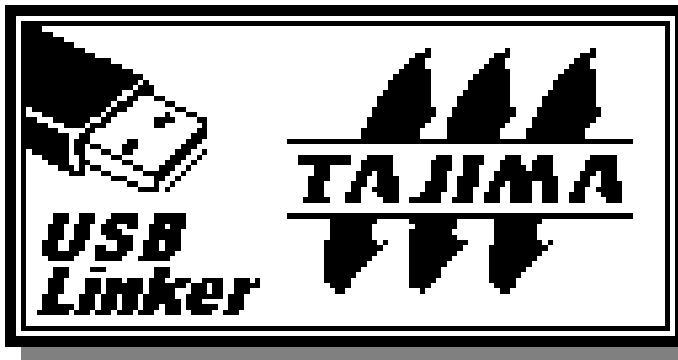
When you press the MODE key to go to the upper directory, the following screen appears. If you select “ -> PRE_DIR”, then cursor moves to the upper directory.



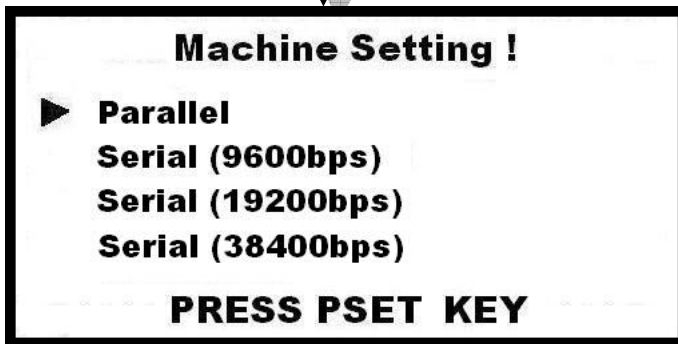
4. Using the TAJIMA USB Linker

4-5. Setting the machine type

<Example> Setting the machine type (PARALLEL SERIAL)



Press the UP and DOWN key simultaneously when the logo screen is displayed.



Select the machine type using the cursor key and press the SET key.

Parallel Cable	TMEF, TMEG, TMFD, TLFD, TMFX, TMCE
Serial Cable ->Baud Rate	TMEG, TMFD -> 9,600bps TMFX, TMCE, TMLH, TMEX-C, TEHX-C/TFHX(SOP) ->Please follow the instruction in the "TAJIMA User's Manual". TFKN(SOP), TEHX-C/TFHX/TFGN(LCD by Windows CE), TEJT-C ->Any rate is available.

Remarks:

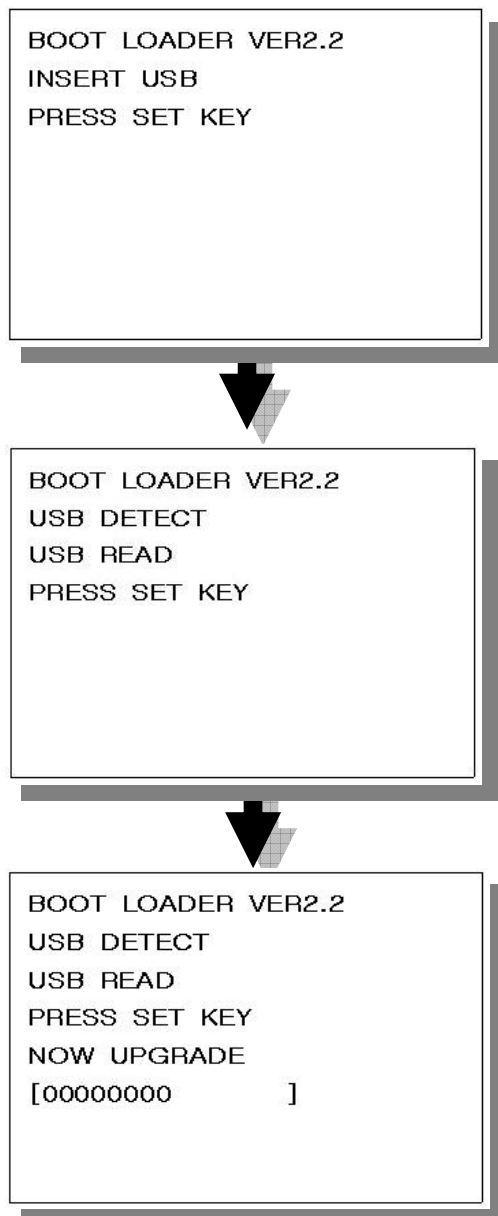
1. If the cable does not match the machine setting, the design data can not be transferred to the machine.
2. The available cable and Baud rates (Communication Speed) are different, depending on the machine type and the manufacturing period.

4. Using the TAJIMA USB Linker

4-6. Firmware Upgrade

You must save the firmware "[usblink2.rom](#)" in your USB Stick.

Korea Tajima's website "<http://www.koreatajima.com>" will supply the firmware file.



Press MODE key.

Turn on the TAJIMA USB Linker.

Then the left screen will be displayed.

Insert a USB Stick.

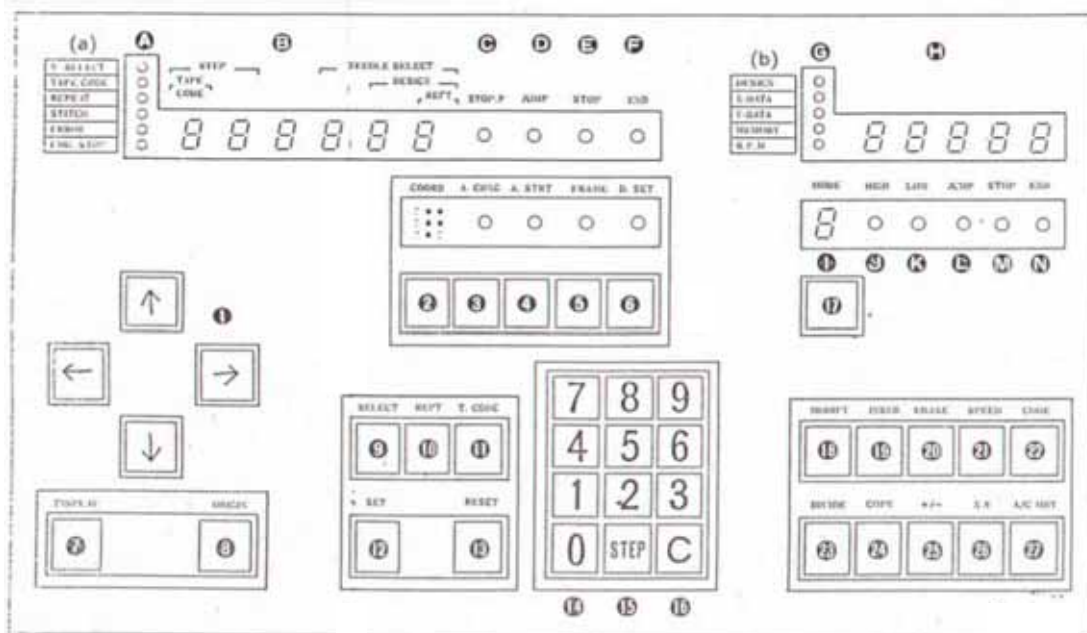
And press SET key.

Process is upgraded.

When it is finished, turn off and on the power of the TAJIMA USB Linker.

5. Calling the design at the machine

5-1. TAJIMA TMEF Series



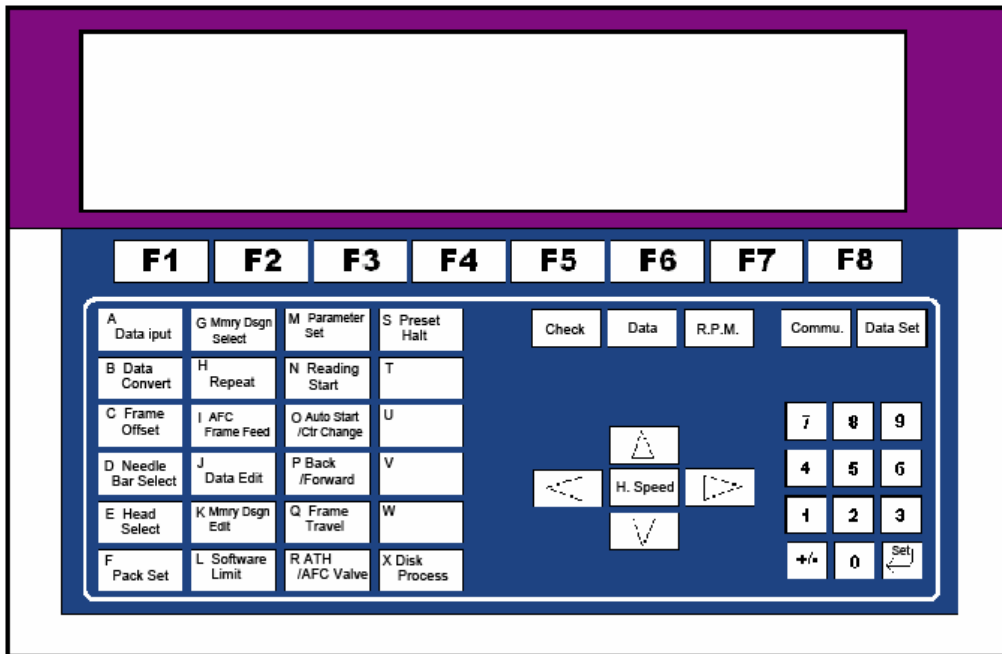
< TMEF Operation Panel >

Remarks

1. Please use Parallel Cable and connect it to the Reader Connector of the Controller Box.
2. For more details, please see the "TAJIMA User's Manual" of each machine.

5. Calling the design at the machine

5-2. TAJIMA TMEG Series



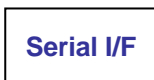
< TMEG Operation Panel >



Press “A DATA INPUT” key **on the menu**. If the data set lamp is on, terminate the data set.



In case you use Parallel Cable, press the “F2” key to select “Reader”



In case you use Serial Cable, press the “F3” key to select “Serial I/F”.

Then, set up the following in sequence:

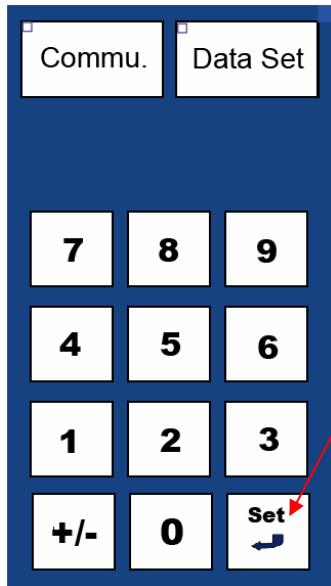
1. Calling input	[Input]
2. Data code	[Auto select]
3. Writing into memory	[Yes]
4. Design number	[1]
5. Design name	[*]

Remarks:


1. “2. Data Code” -> Select (Auto select)

5. Calling the design at the machine

* To scale up/down or rotate the design, press the “B Data reduce-enlarge” key.



After setting all the appropriate values, press the “DATASET” key.

Then, press the  key.

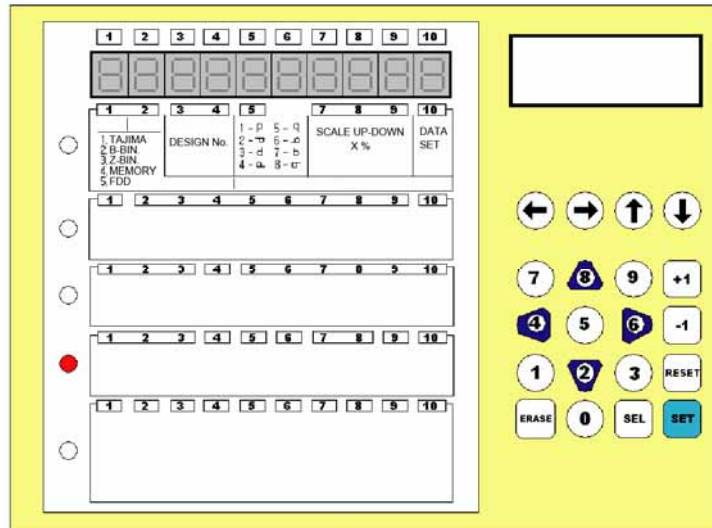
Data transfer starts from the TAJIMA USB Linker.

Remarks:

1. Parallel Port locates on the Controller Box (Connector for Reader).
2. Serial Port locates on the Controller Box (Connector for Serial I/F).
3. For more details, please see the “TAJIMA User’s Manual“ of each machine.

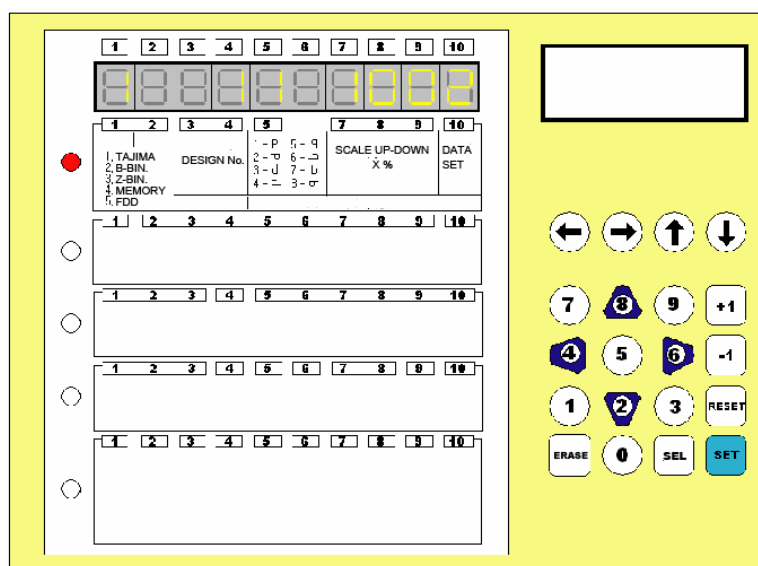
5. Calling the design at the machine

5-3. TAJIMA TMEF, TMFD, TLFD, TFKN(SOP) Series etc.

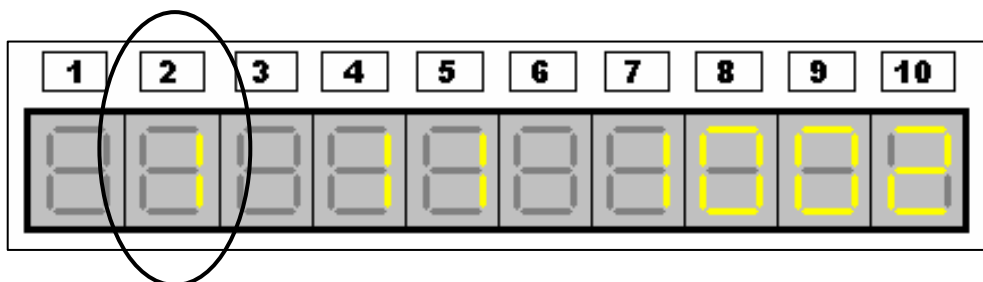


< TMFD Operation Panel >

- In general, the LED lamp on the left part of the Panel is selected in the 4th column like the above picture.
- Press the arrow key until the LED lamp selection moves up to the up-most column.



5. Calling the design at the machine

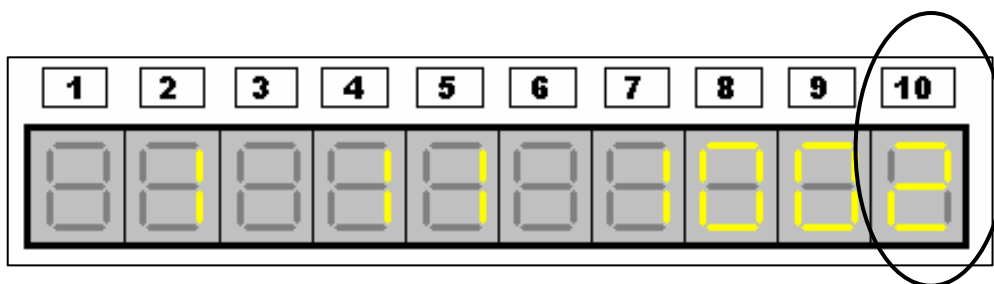


When the cursor is located in any position, it blinks. Move the cursor to the second digit from the left end.

Press '1' key and 'SET' key to select "1. TAJIMA".

Input the design number and mirror effect (P direction), and scale up/down values.

If you continue to press the "SET" key, 10th digit would blink in general.



Confirm the setting values and press "1" key and "Set" key.

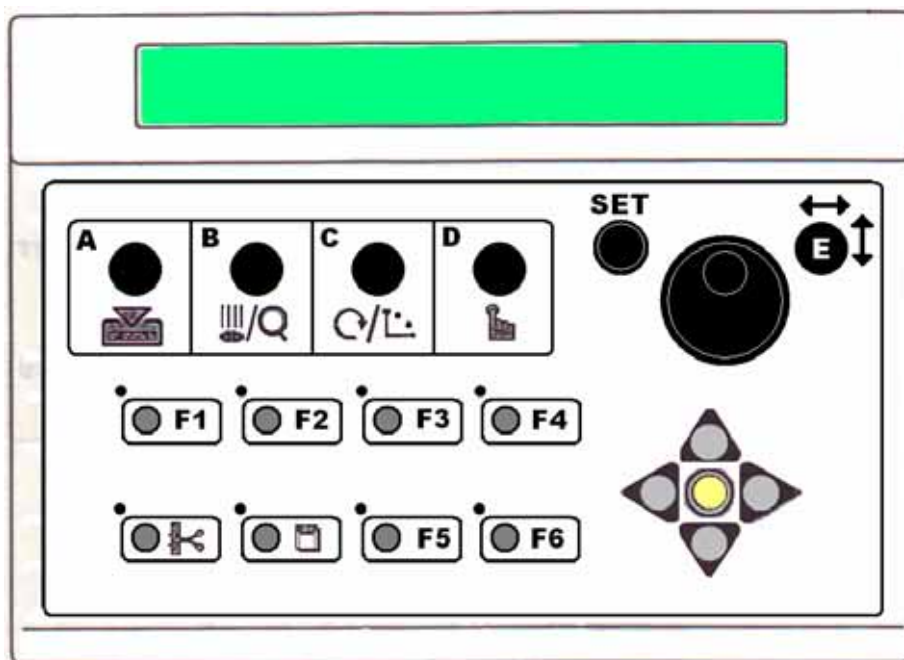
Data transfer starts from the **TAJIMA** USB Linker.

Remarks:

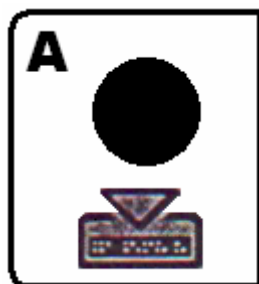
1. In case you use Parallel Cable, please connect the cable to the PTR Connector of the Operation Panel.
2. In case you use Serial Cable, please connect the cable to the RS232C Connector of the Operation Panel.
3. For more details, please see the "Tape Setting Procedure (Using an 8RE Reader)" and "Data Input (Reading from PTR...)" in the "TAJIMA User's Manual".

5. Calling the design at the machine

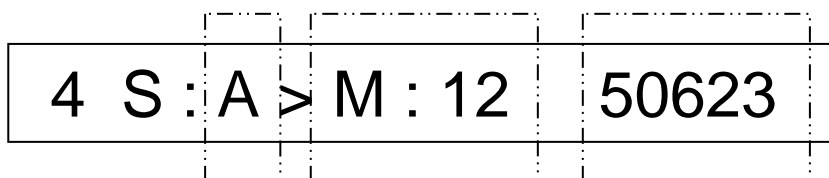
5-4. TAJIMA TMFX, TMEX-C, TMLH, TMCE, TEHX-C/TFHX(SOP) Series etc.



< Operation Panel >



If you press the "A" key 4 times, the following screen will appear.



Code
type

Save
position

Residual
memory

5. Calling the design at the machine

In order to change the memory location, move the cursor using the jog dial.



Press the SET key two times.

Data transfer starts from the USB Linker.

About 5 second later, you will hear a sound from the control panel.
Then you can prepare or start the operation.

Remarks.

1. In case of Serial connection, please check the initial setting of the communication speed (9600/19200/38400bps) in the "TAJIMA User's Manual" of each machine.
2. When you change the communication speed, please change the DIP switch setting of the CPU card of the machine.
3. For more details, please see the TAJIMA "User's Manual" of each machine.

5. Calling the design at the machine

5-5. TAJIMA TEHX-C/TFHX/TFGN

(LCD by Windows CE) Series etc.



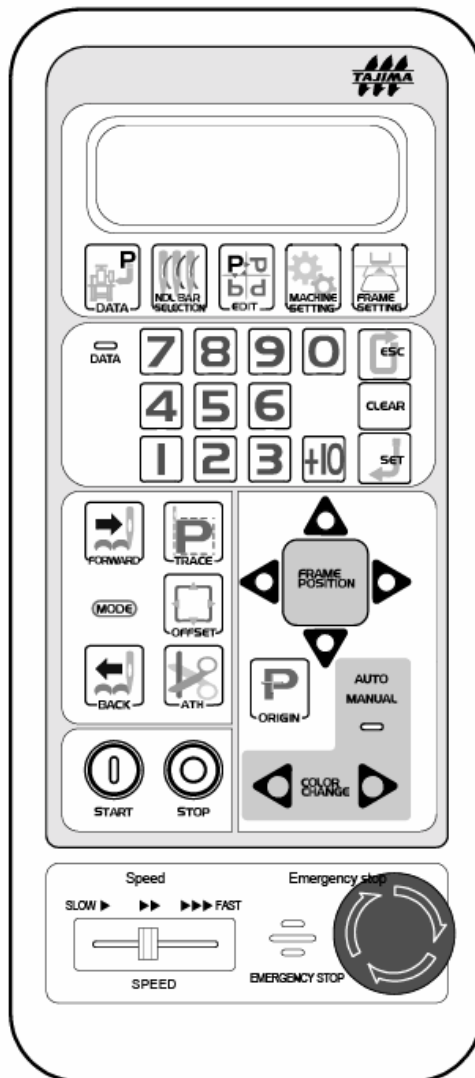
< Operation Panel >

Remarks.

1. In case of Serial connection, you can select any communication Speed (Baud Rate).
1. For more details, please see the "Inputting From Serial Connecting Device" in "TAJIMA User's Manual" of each machine.

5. Calling the design at the machine

5-6. TAJIMA TEJT-C Series etc.



< Operation Panel >

Remarks.

1. In case of Serial connection, you can select any Communication Speed (Baud Rate).
2. For more details, please see the “Input Data (Serial Connection)” in “TAJIMA User’s Manual” of each machine.

6. Troubleshooting

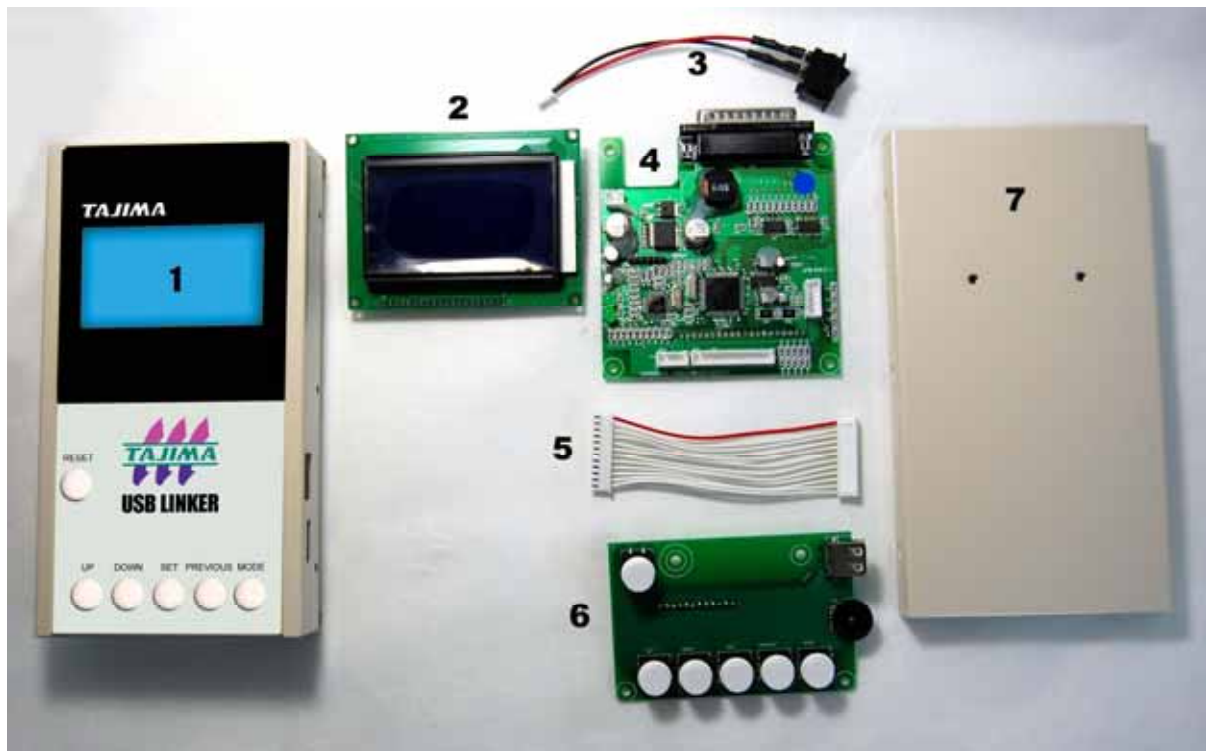
6-1. Typical errors and solutions

Error No.	Indication	Trouble	Management
1001	USB READ Error	It occurs during the communication with the machine.	RESET and Re-Input
1002	USB EXTRACT	It occurs when the USB Stick is removed during reading.	RESET and Re-Input
1003	USB Chip Set Error !	It occurs when USB Linker does not work properly within about 5 seconds after the Power-on Logo has appeared.	Contact to the manufacturer of the USB Linker.
1004	Directory name is invalid	It occurs when you use special character in the directory name.	Change the directory name using alphabets.

6-2. Other possible errors

Trouble	Management
LCD is not turned on, after turning the switch on.	<ul style="list-style-type: none"> - Check the cable connection. - Contact to the seller.
->PRE_DIR is not displayed when changing the directory.	Connect the USB to the PC and back up the design. Format the USB. (This occurs when FAT in the USB memory is broken.)
The design is transferred even though you did not start transferring at the machine.	<ul style="list-style-type: none"> - Set the machine type again.
The number of designs in the USB Stick and displayed on the screen are different.	<ul style="list-style-type: none"> - We support only *.dst. (Tajima format) Check if there are any designs in other formats.

7. Parts List



No.	ITEM	Part No.	Remarks
1	USB Linker Case	TUP00001	
2	LCD	TUP00002	
3	Power Switch & Cable	TUP00003	
4	CPU Board	TUP00004	
5	CPU board cable	TUP00005	
6	Switch board	TUP00006	
7	Cover	TUP00007	

Manual Edition 2009 09-1



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